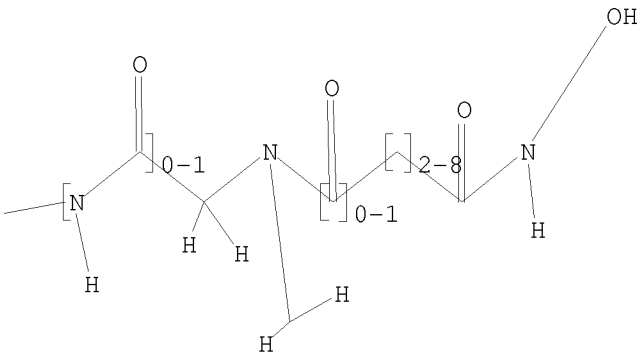
Uploading C:\Program Files\Stnexp\Queries\10580480d.str

L15 STRUCTURE UPLOADED

=> d
L15 HAS NO ANSWERS
L15 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l15 sss
SAMPLE SEARCH INITIATED 14:48:02 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 10587 TO ITERATE

18.9% PROCESSED 2000 ITERATIONS 1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 205572 TO 217908
PROJECTED ANSWERS: 1 TO 243

L16 1 SEA SSS SAM L15

=> s l15 sss full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 191.05 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 14:48:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 211795 TO ITERATE

100.0% PROCESSED 211795 ITERATIONS 205 ANSWERS
SEARCH TIME: 00.00.04

L17 205 SEA SSS FUL L15

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION

FULL ESTIMATED COST 192.03 662.04

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION

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FILE 'CAPLUS' ENTERED AT 14:48:31 ON 08 SEP 2010
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FILE COVERS 1907 - 8 Sep 2010 VOL 153 ISS 11
FILE LAST UPDATED: 7 Sep 2010 (20100907/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2010

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l17
L18 47 L17

=> s l18 and Py<2004
24051605 PY<2004
L19 27 L18 AND PY<2004

=> s l18 and Py<2003
22999285 PY<2003
L20 24 L18 AND PY<2003

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THE ESTIMATED COST FOR THIS REQUEST IS 58.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L19 ANSWER 1 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:535052 CAPLUS
DOCUMENT NUMBER: 139:292132
TITLE: Design, synthesis and antimalarial activity of novel,

quinoline-Based, zinc metallo-aminopeptidase inhibitors

AUTHOR(S): Flipo, Marian; Florent, Isabelle; Grellier, Philippe; Sergheraert, Christian; Deprez-Poulain, Rebecca

CORPORATE SOURCE: Institut Pasteur et Institut de Biologie de Lille, Universite de Lille 2, UMR CNRS 8525, Lille, Fr.

SOURCE: Bioorganic & Medicinal Chemistry Letters (2003), 13(16), 2659-2662
CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

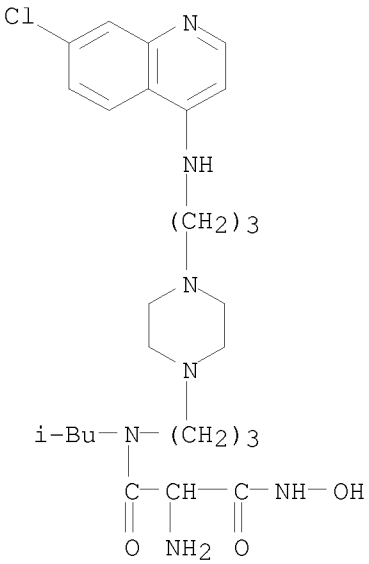
OTHER SOURCE(S): CASREACT 139:292132

AB PfA-M1, a neutral zinc aminopeptidase of Plasmodium falciparum, is a new potential target for the discovery of antimalarials. The design and synthesis of a library of 45 quinoline-based inhibitors of PfA-M1 is reported. The best inhibitor displays an IC50 of 854 nM. The antimalarial activity on a CQ-resistant strain and the specificity towards mammalian aminopeptidase N are also discussed. Compds. thus prepared and evaluated included N1-hydroxy-N2-(2-methylpropyl)-N2-(4-quinolinyl)propanediamide, N1-hydroxy-N2,2-bis(2-methylpropyl)-N2-(4-quinolinyl)propanediamide and 2-amino-N1-hydroxy-N2-(2-methylpropyl)-N2-(4-quinolinyl)propanediamide. These compds. were analogs of N-(cyclopropylmethyl)-N-(4-quinolinyl)-β-alaninamide.

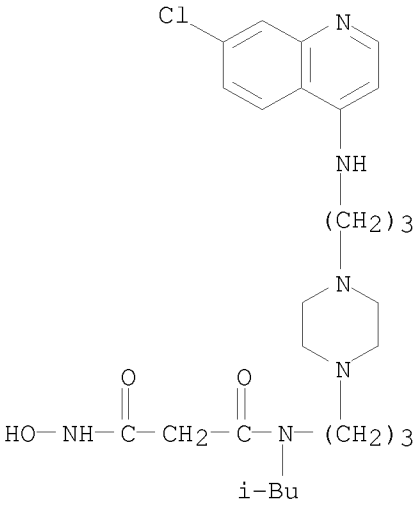
IT 608520-26-9P 608520-27-0P 608520-29-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(design, preparation and antimalarial activity of quinoline-based zinc metallo-aminopeptidase inhibitors)

RN 608520-26-9 CAPLUS

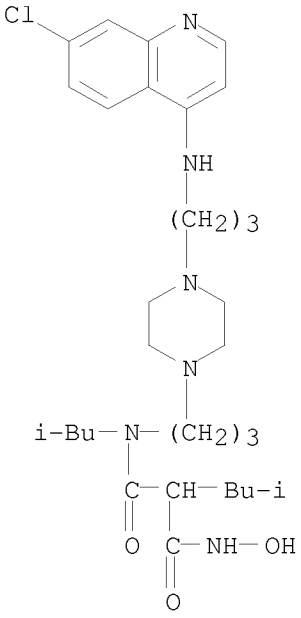
CN Propanediamide, 2-amino-N1-[3-[4-[3-[(7-chloro-4-quinolinyl)amino]propyl]-1-piperazinyl]propyl]-N3-hydroxy-N1-(2-methylpropyl)- (CA INDEX NAME)



RN 608520-27-0 CAPLUS
CN Propanediamide, N1-[3-[4-[3-[(7-chloro-4-quinolinyl)amino]propyl]-1-piperazinyl]propyl]-N3-hydroxy-N1-(2-methylpropyl)- (CA INDEX NAME)



RN 608520-29-2 CAPLUS
CN Propanediamide, N1-[3-[4-[3-[(7-chloro-4-quinolinyl)amino]propyl]-1-piperazinyl]propyl]-N3-hydroxy-N1,2-bis(2-methylpropyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 23 THERE ARE 23 CAPLUS RECORDS THAT CITE THIS RECORD (23 CITINGS)

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

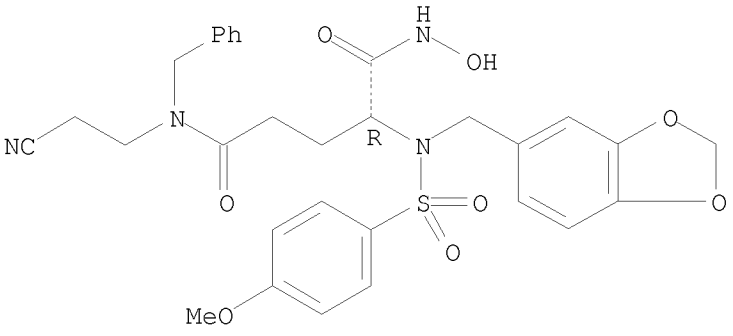
L19 ANSWER 2 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:485895 CAPLUS
DOCUMENT NUMBER: 139:223711
TITLE: Novel inhibitors of procollagen C-Proteinase. Part 2: glutamic acid hydroxamates
AUTHOR(S): Robinson, L. A.; Wilson, D. M.; Delaet, N. G. J.; Bradley, E. K.; Dankwardt, S. M.; Campbell, J. A.; Martin, R. L.; Van Wart, H. E.; Walker, K. A. M.; Sullivan, R. W.
CORPORATE SOURCE: CombiChem Inc., San Diego, CA, 92121, USA
SOURCE: Bioorganic & Medicinal Chemistry Letters (2003), 13(14), 2381-2384
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:223711

AB Glutamic acid derived hydroxamates were identified as potent and selective inhibitors of procollagen C-proteinase, an essential enzyme for the processing of procollagens to fibrillar collagens. Such compds. have potential therapeutic application in the treatment of fibrosis.

IT 279255-52-6P 591766-04-0P 591766-06-2P
591766-07-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and structure-activity relationship of glutamic acid hydroxamates as novel inhibitors of procollagen C-Proteinase)

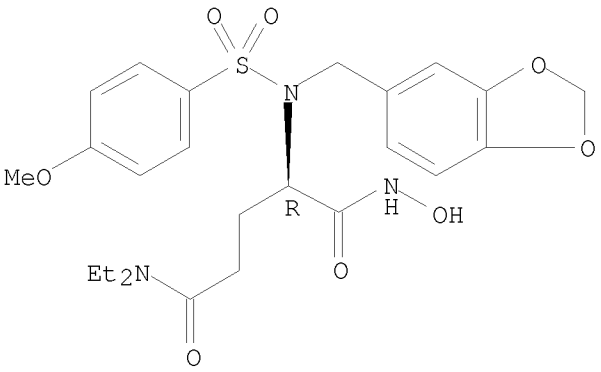
RN 279255-52-6 CAPLUS
CN Pentanediamide, 2-[(1,3-benzodioxol-5-ylmethyl)[(4-methoxyphenyl)sulfonyl]amino]-N5-(2-cyanoethyl)-N1-hydroxy-N5-(phenylmethyl)-, (2R)- (CA INDEX NAME)

Absolute stereochemistry.



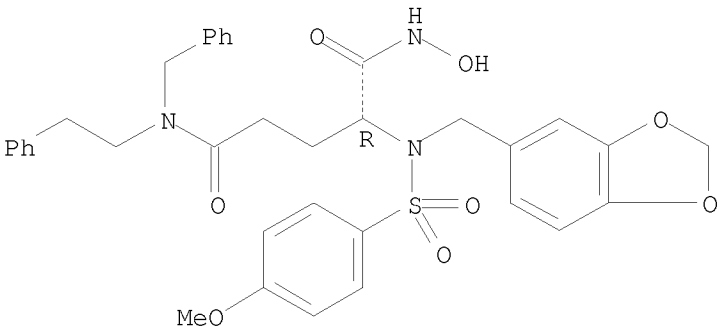
RN 591766-04-0 CAPLUS
CN Pentanediamide, 2-[(1,3-benzodioxol-5-ylmethyl)[(4-methoxyphenyl)sulfonyl]amino]-N5,N5-diethyl-N1-hydroxy-, (2R)- (CA INDEX NAME)

Absolute stereochemistry.



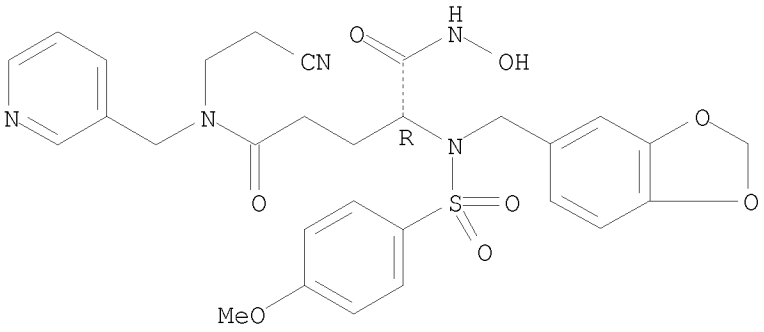
RN 591766-06-2 CAPLUS
CN Pentanediamide, 2-[(1,3-benzodioxol-5-ylmethyl)[(4-methoxyphenyl)sulfonyl]amino]-N1-hydroxy-N5-(2-phenylethyl)-N5-(phenylmethyl)-, (2R)- (CA INDEX NAME)

Absolute stereochemistry.



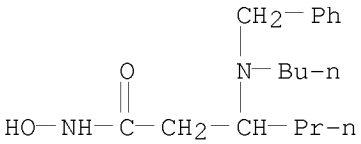
RN 591766-07-3 CAPLUS
CN Pentanediamide, 2-[(1,3-benzodioxol-5-ylmethyl)[(4-methoxyphenyl)sulfonyl]amino]-N5-(2-cyanoethyl)-N1-hydroxy-N5-(3-pyridinylmethyl)-, (2R)- (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 3 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:477672 CAPLUS
DOCUMENT NUMBER: 139:350613
TITLE: Simple preparation of N-benzyl-β-aminohydroxamic acids by 1,3-dipolar cycloaddition of nitrones
AUTHOR(S): Chevrier, Carine; Defoin, Albert
CORPORATE SOURCE: Laboratoire de Chimie Organique et Bioorganique UMR 7015, Ecole Nationale Superieure de Chimie de Mulhouse, Universite de Haute-Alsace, Mulhouse, 68093, Fr.
SOURCE: Synthesis (2003), (8), 1221-1224
CODEN: SYNTBF; ISSN: 0039-7881
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:350613
AB β-Aminohydroxamic acids 6a-d are prepared in 4 steps and 30-45% overall yield from nitrones 1a-d by 1,3-dipolar cycloaddn. with Ph vinyl ether, N-benzylation, thermal rearrangement, and nucleophilic substitution of the formed Ph ester with hydroxylamine. Nitrones included 3,4-dihydro-2H-pyrrole 1-oxide, 2,3,4,5-tetrahydropyridine 1-oxide, N-(butylidene)-1-butanamine N-oxide, (3R,4R)-3,4-dihydro-3,4-bis(methoxymethoxy)-2H-pyrrole. Hydroxamic acids thus prepared included N-hydroxy-1-(phenylmethyl)-2-pyrrolidineacetamide, N-hydroxy-1-(phenylmethyl)-2-piperidineacetamide, 3-[butyl(phenylmethyl)amino]-N-hydroxyhexanamide, (-)-(2R,3R,4R)-N-Hydroxy-3,4-bis(methoxymethoxy)-1-(phenylmethyl)-2-pyrrolidineacetamide,.
IT 618107-08-7P, 3-[Butyl(phenylmethyl)amino]-N-hydroxyhexanamide
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of N-benzyl-β-aminohydroxamic acids by 1,3-dipolar cycloaddn. of nitrones)
RN 618107-08-7 CAPLUS
CN Hexanamide, 3-[butyl(phenylmethyl)amino]-N-hydroxy- (CA INDEX NAME)

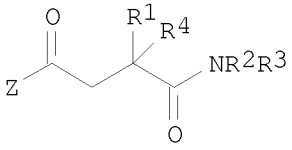


OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)
REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 4 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:275960 CAPLUS
DOCUMENT NUMBER: 136:310184
TITLE: Preparation of hydroxamic acid peptide deformylase inhibitors as antibacterial agents
INVENTOR(S): Chong, Lee; Frechette, Roger; Scott, Carole; Tester, Richard; Smith, Whitney; Chiba, Katsumi; Sakamoto, Masatoshi; Gluchowski, Charles
PATENT ASSIGNEE(S): Questcor Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 171 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2002028829	A2	20020411	WO 2001-US29926		20010924 <--
WO 2002028829	A3	20031224			
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW					
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
AU 2002030385	A	20020415	AU 2002-30385		20010924 <--
PRIORITY APPLN. INFO.:			US 2000-234967P	P	20000925
			US 2001-761850	A	20010118
			WO 2001-US29926	W	20010924

OTHER SOURCE(S): MARPAT 136:310184
GI



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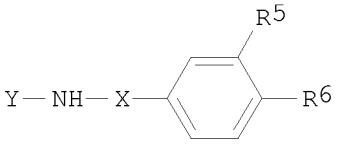

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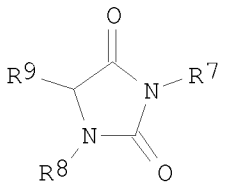

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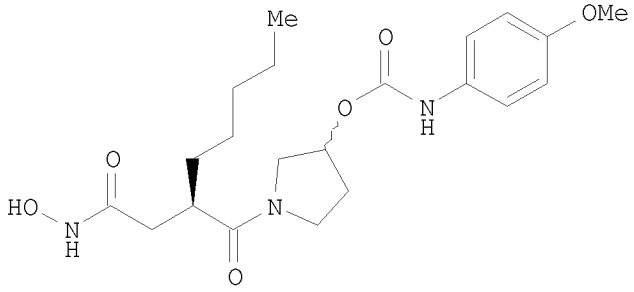


IV

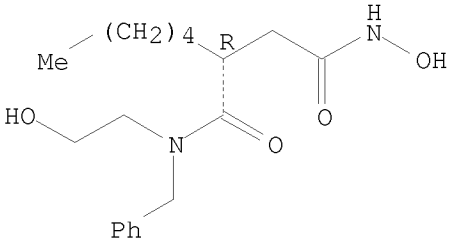
AB Hydroxamic acid derivs. of peptides and peptidomimetics of formulas I, II, and III [wherein Z = NHOH or ORa; Ra = alkyl or a biocleavable moiety; X = CO or SO2; Y = (un)substituted heteroalkyl or heterocyclyl; R1 = (un)substituted (cyclo)alkyl, aryl, heterocyclyl, or heteroalkyl; R2R3 = 4-7 membered (un)substituted heterocycle; R2R4 = ring formed through a CH2CH2 linkage; or R2 = Me; or R3 = H or (un)substituted (hetero)alkyl, aryl, or heterocyclyl; or R4 = H or (un)substituted (hetero)alkyl, aryl, or heterocyclyl; R5 and R6 = independently H, NO2, NH2, NHCOH, NHCOCH3, NHSO2CH3, or (un)substituted CH2NH-(hetero)alkyl or CH2NH-heterocyclyl; one of R7 or R8 = CHR10CONHOH; one of R7 or R8 = (un)substituted (hetero)alkyl, (alkyl)heterocyclyl, or alkylaryl; R9 and R10 = independently H or (un)substituted (hetero)alkyl, (alkyl)heterocyclyl, or alkylaryl] were prepared as peptide deformylase (Fe-PDF) inhibitors for treating various bacterial infections. For example, 3-pyrrolidinol was added to tert-Bu (R)-(2-pentyl)succinate mono(N-hydroxysuccinimide) ester to give the amide (68%). Treatment with 20% TFA/DCM, followed by MeOH, benzene, and TMSN2 in hexanes, to afford the Me ester (90%). The pyrrolidinol was coupled with 4-methoxyphenylisocyanate and the ester converted to the hydroxamic acid (IV) using NH2OH•HCl. The latter inhibited E. coli Fe-PDF with IC50 of 9 nM and showed selectivity for Fe-PDF vs. thermolysin with a selectivity index of 30,000. Thus, I, II, and III are useful as antibiotics against a broad range of infectious disease in animals and humans.

IT 409129-80-2P 409129-81-3P 409129-82-4P
409129-83-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)
(peptide deformylase inhibitor; preparation of hydroxamic acid derivs. of peptides and peptidomimetics as peptide deformylase inhibitors for treatment of infectious diseases)

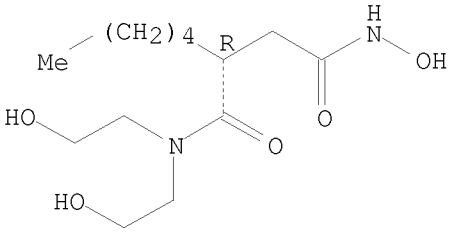
RN 409129-80-2 CAPLUS
CN Butanediamide, N4-hydroxy-N1-(2-hydroxyethyl)-2-pentyl-N1-(phenylmethyl)-, (2R)- (CA INDEX NAME)

Absolute stereochemistry.



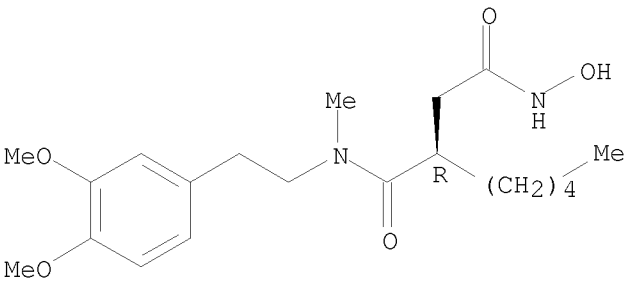
RN 409129-81-3 CAPLUS
CN Butanediamide, N4-hydroxy-N1,N1-bis(2-hydroxyethyl)-2-pentyl-, (2R)- (CA INDEX NAME)

Absolute stereochemistry.



RN 409129-82-4 CAPLUS
CN Butanediamide, N1-[2-(3,4-dimethoxyphenyl)ethyl]-N4-hydroxy-N1-methyl-2-pentyl-, (2R)- (CA INDEX NAME)

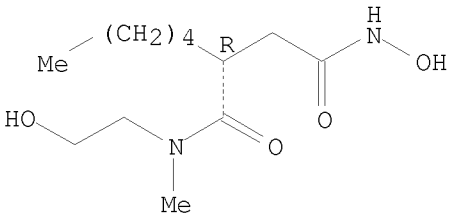
Absolute stereochemistry.



RN 409129-83-5 CAPLUS

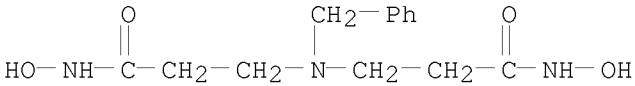
CN Butanediamide, N4-hydroxy-N1-(2-hydroxyethyl)-N1-methyl-2-pentyl-, (2R)- (CA INDEX NAME)

Absolute stereochemistry.

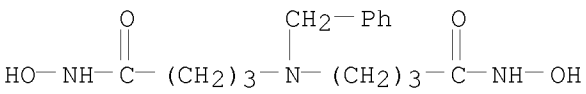


OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

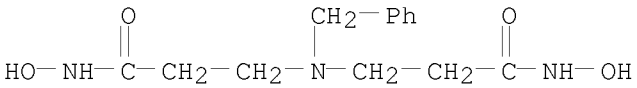
L19 ANSWER 5 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:152517 CAPLUS
DOCUMENT NUMBER: 139:91098
TITLE: Transition metal complexes of two new imino-dihydroxamic acids. [Erratum to document cited in CA136:43578]
AUTHOR(S): Santos, M. Amelia; Grazina, Raquel; Pinto, Margarida; Farkas, Etelka
CORPORATE SOURCE: Centro de Quimica Estrutural, Instituto Superior Tecnico, Lisbon, 1049-001, Port.
SOURCE: Inorganica Chimica Acta (2002), 329, 155
CODEN: ICHAA3; ISSN: 0020-1693
PUBLISHER: Elsevier Science S.A.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A revised version of Table 1 is given to correct 3 standard deviation values of consts.
IT 380371-98-2D, transition metal complexes 380372-00-9D , transition metal complexes
RL: CPS (Chemical process); FMU (Formation, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); FORM (Formation, nonpreparative); PROC (Process)
(transition metal complexation with imino-dihydroxamic acids (Erratum))
RN 380371-98-2 CAPLUS
CN Propanamide, 3,3'-[(phenylmethyl)imino]bis[N-hydroxy- (9CI) (CA INDEX NAME)



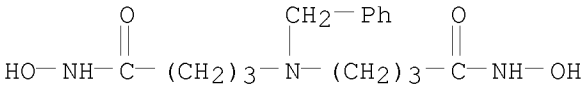
RN 380372-00-9 CAPLUS
CN Butanamide, 4,4'-[(phenylmethyl)imino]bis[N-hydroxy- (9CI) (CA INDEX NAME)



IT 380371-98-2P 380372-00-9P
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(transition metal complexation with imino-dihydroxamic acids (Erratum))
RN 380371-98-2 CAPLUS
CN Propanamide, 3,3'-[(phenylmethyl)imino]bis[N-hydroxy- (9CI) (CA INDEX NAME)



RN 380372-00-9 CAPLUS
CN Butanamide, 4,4'-[(phenylmethyl)imino]bis[N-hydroxy- (9CI) (CA INDEX NAME)



L19 ANSWER 6 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2001:713343 CAPLUS
DOCUMENT NUMBER: 135:272894
TITLE: Preparation of β-amino acid derivatives as inhibitors of matrix metalloproteases and TNF-α
INVENTOR(S): Duan, Jingwu; King, Bryan W.; Decicco, Carl; Maduskuie, Thomas P., Jr.; Voss, Matthew E.
PATENT ASSIGNEE(S): Dupont Pharmaceuticals Company, USA
SOURCE: PCT Int. Appl., 483 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001070734	A2	20010927	WO 2001-US8336	20010315 <--
WO 2001070734	A3	20020314		

W: AT, AU, BR, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, HU, IL, IN, JP, KR, LT, LU, LV, NZ, PL, PT, RO, SE, SG, SI, SK, UA, VN, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,

PT, SE, TR

CA 2400168	A1	20010927	CA 2001-2400168	20010315 <--
AU 2001050850	A	20011003	AU 2001-50850	20010315 <--
EP 1263756	A2	20021211	EP 2001-924171	20010315 <--
EP 1263756	B1	20040225		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR				
BR 2001009469	A	20030429	BR 2001-9469	20010315 <--
JP 2003528097	T	20030924	JP 2001-568935	20010315 <--
AT 260272	T	20040315	AT 2001-924171	20010315
NZ 521245	A	20040430	NZ 2001-521245	20010315
ES 2215893	T3	20041016	ES 2001-924171	20010315
US 20020013341	A1	20020131	US 2001-811116	20010316 <--
US 6495565	B2	20021217		
IN 2002MN01075	A	20050304	IN 2002-MN1075	20020808
HK 1049334	A1	20040716	HK 2003-101437	20030226

PRIORITY APPLN. INFO.:	US 2000-190183P	P	20000317
	US 2000-235467P	P	20000926
	US 2000-252062P	P	20001120
	WO 2001-US8336	W	20010315

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 135:272894

AB Novel β-amino acid derivs. A-CR3R4aCR2R4NR1CO-X-Z-Ua-Xa-Ya-Za [A = CO2H, SH, CH2SH, S(O)Ra:NH (Ra = H, alkyl), P(O)(OH)2, etc.; X, Xa is absent or alkylene, alkenylene or alkynylene; Z is absent or substituted C3-13 carbocycle or 5-14 membered heterocycle; Ua is absent or O, NRa1 [Ra1 = H, (un)substituted alkyl, alkenyl or alkynyl; Ra and Ra1 may form a ring], CO, CO2, O2C, CONRa1, S(O)p (p = 0-2), etc.; Ya is absent or O, NRa1, S(O)p or CO; Za is H, substituted C3-13 carbocycle or 5-14 membered heterocycle; R1 is H, alkyl, Ph, benzyl; R2 is Q (Q is H, substituted carbocycle or heterocycle), alkylene-Q, (CRaRa1)r1O(CRaRa1)r-Q (r, r1 = 0-4), (CRaRa1)r1NRa(CRaRa1)r-Q, etc.; R3 = Q1 (Q1 is any group given for Q), alkylene-Q1, (CRaRa1)r1O(CRaRa1)r-Q1, (CRaRa1)r1NRa(CRaRa1)r-Q1, etc.; R4, R4a = H, substituted alkyl, alkenyl or alkynyl; alternatively R1 and R2, R1 and R3, R3 and R4a may form rings (with provisos)] or a stereoisomer or pharmaceutically acceptable salt were prepared as metalloprotease and TNF-α inhibitors. Thus, N-hydroxy-1-[[4-[(2-methyl-4-quinolinyl)methoxy]phenyl]acetyl]-3-azetidinecarboxamide was prepared by a multistep procedure involving reactions of Me 4-hydroxyphenylacetate, 2-methyl-4-quinolinylmethanol, and 3-azetidinecarboxylic acid Me ester. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

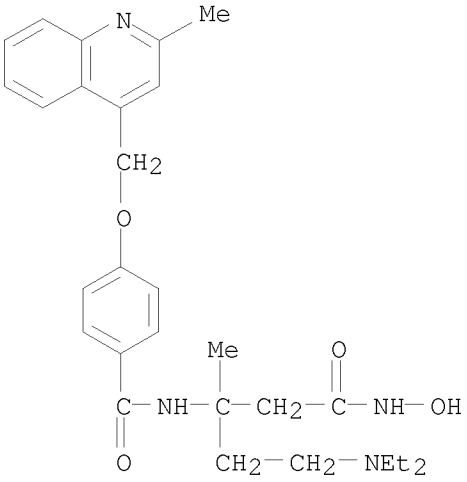
IT 362698-32-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of β-amino acid derivs. as inhibitors of matrix metalloproteases and TNF-α)

RN 362698-32-6 CAPLUS

CN Benzamide, N-[1-[2-(diethylamino)ethyl]-3-(hydroxyamino)-1-methyl-3-oxopropyl]-4-[(2-methyl-4-quinolinyl)methoxy]- (CA INDEX NAME)

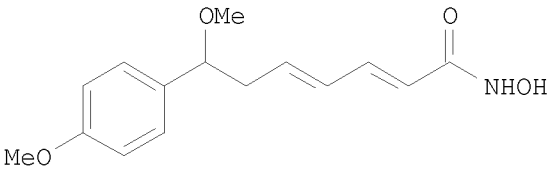


OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 7 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2001:713296 CAPLUS
DOCUMENT NUMBER: 135:272755
TITLE: Preparation of hydroxamic acids as inhibitors of histone deacetylase
INVENTOR(S): Delorme, Daniel; Woo, Soon Hyung; Vaisburg, Arkadii
PATENT ASSIGNEE(S): Methylgene, Inc., Can.
SOURCE: PCT Int. Appl., 241 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001070675	A2	20010927	WO 2001-IB683	20010326 <--
WO 2001070675	A3	20021031		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2404002	A1	20010927	CA 2001-2404002	20010326 <--
US 20020115826	A1	20020822	US 2001-817374	20010326 <--
US 7288567	B2	20071030		
EP 1280764	A2	20030205	EP 2001-921735	20010326 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
JP 2003528074 T 20030924 JP 2001-568887 20010326 <--
EP 1524262 A1 20050420 EP 2005-75122 20010326
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR
US 20090181971 A1 20090716 US 2007-837696 20070813
PRIORITY APPLN. INFO.: US 2000-192151P P 20000324
EP 2001-921735 A3 20010326
US 2001-817374 A3 20010326
WO 2001-IB683 W 20010326
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 135:272755
GI



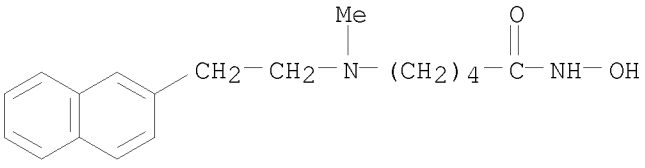
I

AB The title compds. CyXY1W [I; Cy = (un)substituted cycloalkyl, aryl, heterocyclyl; X = CO, CHOH, C:NOH, etc.; Y1 = (un)substituted alkylene, etc. (provided that Y1 does not comprise an ester or amide linkage in the linear chain connecting X and W); W = COCH2SR2, CONHOM, NHCONHZ, CONHZ (R2 = alkyl, aryl, aralkyl, acyl; M = H, cation; Z = hydroxyphenyl, pyridyl, thiazolyl, etc.)], useful for inhibiting histone deacetylase enzymic activity, and therefore for treating cell proliferative diseases and conditions, were prepared E.g., a multi-step synthesis of the title compound II which showed IC50 of 0.25 against recombinant human HDAC-1 enzyme, was given.

IT 362671-66-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of hydroxamic acids as inhibitors of histone deacetylase)

RN 362671-66-7 CAPLUS

CN Pentanamide, N-hydroxy-5-[methyl[2-(2-naphthalenyl)ethyl]amino]- (CA INDEX NAME)



OS.CITING REF COUNT: 25 THERE ARE 25 CAPLUS RECORDS THAT CITE THIS RECORD (29 CITINGS)

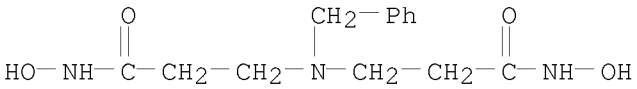
L19 ANSWER 8 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2001:667576 CAPLUS
DOCUMENT NUMBER: 136:43578
TITLE: Transition metal complexes of two new imino-dihydroxamic acids
AUTHOR(S): Amelia Santos, M.; Grazina, R.; Pinto, M.; Farkas, E.
CORPORATE SOURCE: Centro de Quimica Estrutural, Instituto Superior Tecnico, Lisbon, 1049-001, Port.
SOURCE: Inorganica Chimica Acta (2001), 321(1,2), 42-48
CODEN: ICHAA3; ISSN: 0020-1693
PUBLISHER: Elsevier Science S.A.
DOCUMENT TYPE: Journal
LANGUAGE: English

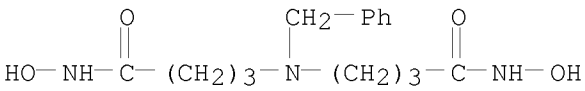
AB Two new iminodihydroxamic acids [N-benzyl-imino-bis(propionohydroxamic acid) and N-benzyl-imino-bis(butyrohydroxamic acid)] were prepared and studied as specific binders for the transition M2+ ions due to their potential interest as inhibitors of metalloproteinases. Their architecture is based on aliphatic backbones, as spacers connecting two hydroxamate chelating units, with an N-benzyl group inserted in that skeleton to simulate the protein lipophilic subset. Herein, we first report the synthetic procedure that basically involves the formation of the corresponding intermediates with two nitrile groups, which were then converted to the CONHOH moieties. Then, the acid-base and the chelating properties of these ligands towards Cu2+, Ni2+ and Zn2+ ions, studied by potentiometric and spectrophotometric techniques, are described. Both the ligands form quite stable complexes with these metal ions, presenting a preferential M2+ coordination to the hydroxamate over the amine groups, according to the order Zn2+ ≥ Ni2+ > Cu2+.

IT 380371-98-2D, transition metal complexes 380372-00-9D , transition metal complexes
RL: CPS (Chemical process); FMU (Formation, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); FORM (Formation, nonpreparative); PROC (Process)
(transition metal complexation with imino-dihydroxamic acids)

RN 380371-98-2 CAPLUS
CN Propanamide, 3,3'-[(phenylmethyl)imino]bis[N-hydroxy- (9CI) (CA INDEX NAME)



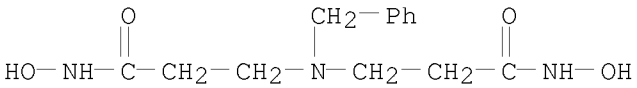
RN 380372-00-9 CAPLUS
CN Butanamide, 4,4'-[(phenylmethyl)imino]bis[N-hydroxy- (9CI) (CA INDEX NAME)



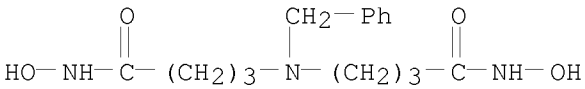
IT 380371-98-2P 380372-00-9P
RL: CPS (Chemical process); PEP (Physical, engineering or chemical

process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(transition metal complexation with imino-dihydroxamic acids)

RN 380371-98-2 CAPLUS
CN Propanamide, 3,3'-[(phenylmethyl)imino]bis[N-hydroxy- (9CI) (CA INDEX NAME)



RN 380372-00-9 CAPLUS
CN Butanamide, 4,4'-[(phenylmethyl)imino]bis[N-hydroxy- (9CI) (CA INDEX NAME)

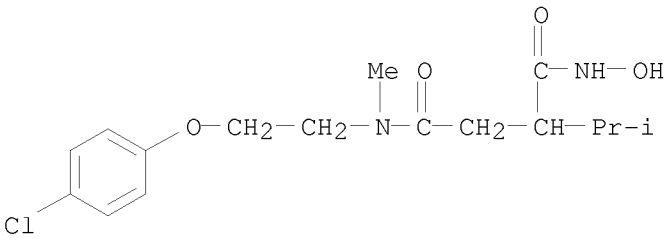


REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

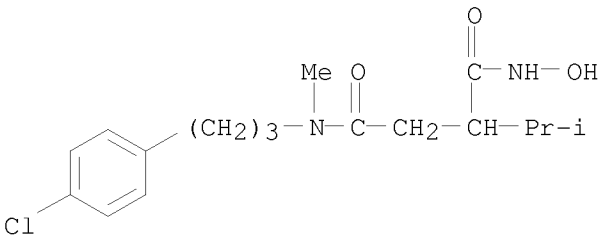
L19 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2001:453016 CAPLUS
DOCUMENT NUMBER: 135:61071
TITLE: Preparation of hydroxamic acid derivatives as matrix metalloproteinase (MMP) inhibitors
INVENTOR(S): Owen, David Alan; Baxter, Andrew Douglas; Watson, Robert John; Montana, John Gary
PATENT ASSIGNEE(S): Darwin Discovery Ltd., UK
SOURCE: PCT Int. Appl., 32 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001044188	A1	20010621	WO 2000-GB4861	20001218 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001022017	A	20010625	AU 2001-22017	20001218 <--
EP 1237867	A1	20020911	EP 2000-985609	20001218 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
US 6462042 B1 20021008 US 2001-806266 20010328 <--
PRIORITY APPLN. INFO.: GB 1999-29979 A 19991217
WO 2000-GB4861 W 20001218
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 135:61071
AB The title compds. B1NB2COCH2CR1R2CONHOH [I; R1 = alkyl, alkenyl, aryl, etc.; R2 = H, alkyl; CR1R2 = (un)substituted cycloalkyl, heterocycloalkyl; B1, B2 = H, alkyl, aryl, etc.] having therapeutic utility, were prepared E.g., a multi-step synthesis of (2S)-I [R1 = iso-Pr; R2 = H; B1 = Me; B2 = 4-(morpholin-4-yl)phenyl] was given. Compds. I are effective in treating inflammation at 0.01-50 mg/kg/day.
IT 345633-03-6P 345633-08-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of hydroxamic acid derivs. as matrix metalloproteinase (MMP) inhibitors)
RN 345633-03-6 CAPLUS
CN Butanediamide, N4-[2-(4-chlorophenoxy)ethyl]-N1-hydroxy-N4-methyl-2-(1-methylethyl)- (CA INDEX NAME)



RN 345633-08-1 CAPLUS
CN Butanediamide, N4-[3-(4-chlorophenyl)propyl]-N1-hydroxy-N4-methyl-2-(1-methylethyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 10 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:441768 CAPLUS
DOCUMENT NUMBER: 133:74324

TITLE: Preparation of amino acid sulfonamide hydroxamates as inhibitors of procollagen C-proteinase.
INVENTOR(S): Billedeau, Roland Joseph; Broka, Chris Allen; Campbell, Jeffrey Allen; Chen, Jian Jeffrey; Dankwardt, Sharon Marie; Delaet, Nancy; Robinson, Leslie Ann; Walker, Keith Adrian Murray
PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.
SOURCE: PCT Int. Appl., 133 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000037436	A1	20000629	WO 1999-EP9920	19991214 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2355902	A1	20000629	CA 1999-2355902	19991214 <--
BR 9916504	A	20010911	BR 1999-16504	19991214 <--
EP 1149072	A1	20011031	EP 1999-963530	19991214 <--
EP 1149072	B1	20040630		
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TR 2001001868	T2	20011121	TR 2001-1868	19991214 <--
HU 2001004658	A2	20020629	HU 2001-4658	19991214 <--
HU 2001004658	A3	20051228		
JP 2002533322	T	20021008	JP 2000-589508	19991214 <--
AU 769319	B2	20040122	AU 2000-19792	19991214
NZ 512292	A	20040326	NZ 1999-512292	19991214
AT 270271	T	20040715	AT 1999-963530	19991214
RU 2232751	C2	20040720	RU 2001-119461	19991214
US 6492394	B1	20021210	US 1999-469660	19991222 <--
HR 2001000443	A2	20020630	HR 2001-443	20010614 <--
ZA 2001005014	A	20020919	ZA 2001-5014	20010619 <--
MX 2001006328	A	20010910	MX 2001-6328	20010620 <--
NO 2001003100	A	20010821	NO 2001-3100	20010621 <--
US 20030199520	A1	20031023	US 2002-267292	20021009 <--
US 6844366	B2	20050118		
US 20030216405	A1	20031120	US 2002-267727	20021009 <--
US 6787559	B2	20040907		

PRIORITY APPLN. INFO.:	US 1998-113311P	P	19981222
	US 1999-147053P	P	19990803
	US 1999-164138P	P	19991108
	WO 1999-EP9920	W	19991214
	US 1999-469660	A3	19991222

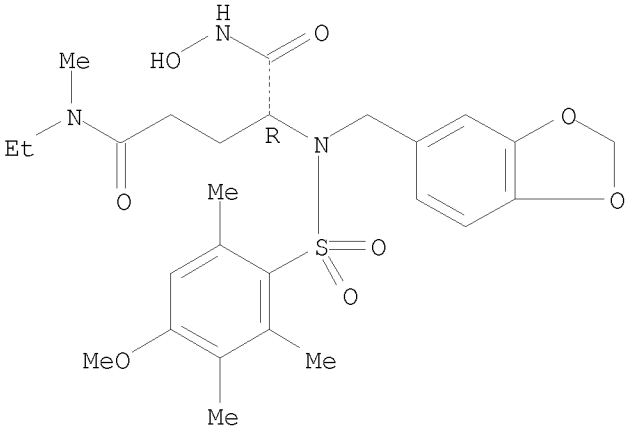
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 133:74324
AB HOHNCOCHR1NRSO2Ar2 [R1 = alkyl, haloalkyl, heteroalkyl, cycloalkyl, aryl,

aralkyl, aralkenyl, heteroaryl, heteroaralkyl, aminl, aryl, aralkyl, etc.; R = CHR2Ar1, CHR2CH:CHAr1; Ar2 = specified (substituted) Ph, naphthyl; R2 = H, alkyl; with provisos], were prepared Thus, N-hydroxy-2(R)-[(3,4-methylenedioxybenzyl)(4-methoxy-2,3,6-trimethylbenzenesulfonyl)amino]-3-methylbutyramide was prepared by solution phase synthesis from BOC-D-Val-OH. Title compds. inhibited procollagen C-proteinase with IC50 0.01-2 μM.

IT 279255-20-8P 279255-52-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of amino acid sulfonamide hydroxamates as inhibitors of procollagen C-proteinase)

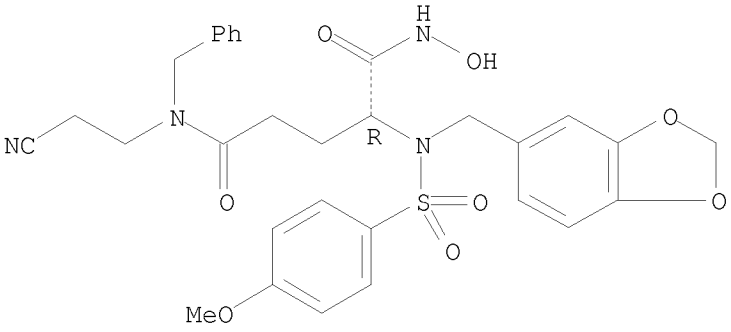
RN 279255-20-8 CAPLUS
CN Pentanediamide, 2-[(1,3-benzodioxol-5-ylmethyl)[(4-methoxy-2,3,6-trimethylphenyl)sulfonyl]amino]-N5-ethyl-N1-hydroxy-N5-methyl-, (2R)- (CA INDEX NAME)

Absolute stereochemistry.



RN 279255-52-6 CAPLUS
CN Pentanediamide, 2-[(1,3-benzodioxol-5-ylmethyl)[(4-methoxyphenyl)sulfonyl]amino]-N5-(2-cyanoethyl)-N1-hydroxy-N5-(phenylmethyl)-, (2R)- (CA INDEX NAME)

Absolute stereochemistry.



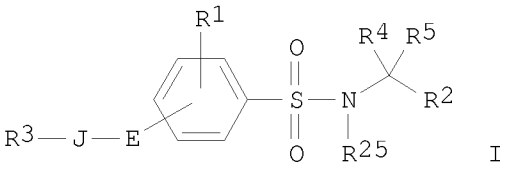
OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l19 11-27 ibib abs hitstr
THE ESTIMATED COST FOR THIS REQUEST IS 98.77 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L19 ANSWER 11 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1998:498627 CAPLUS
DOCUMENT NUMBER: 129:175972
ORIGINAL REFERENCE NO.: 129:35769a,35772a
TITLE: Preparation of phenylsulfonamides as matrix metalloproteinase inhibitors for treatment of diseases
INVENTOR(S): Takahashi, Kanji; Sugiura, Tsuneyuki
PATENT ASSIGNEE(S): Ono Pharmaceutical Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 42 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10204054	A	19980804	JP 1997-20880	19970121 <--
PRIORITY APPLN. INFO.:			JP 1997-20880	19970121

OTHER SOURCE(S): MARPAT 129:175972
GI



I

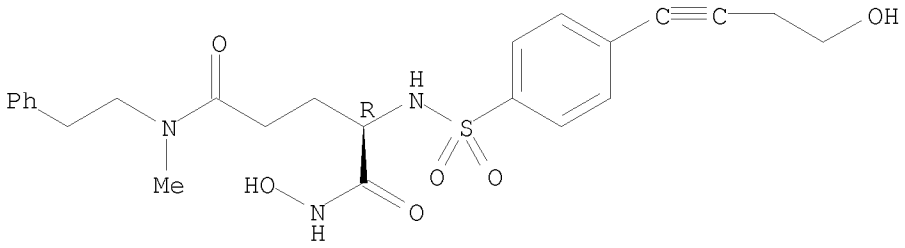
AB Phenylsulfonamides I [R1 = H, C1-4 alkyl; R2 = CO2R6, CONHOR7; R6, R7 = H, (un)substituted alkyl, Ph; R3 = OR11, (un)substituted amino, CO2R14, etc.; R11 = H, (un)substituted C1-4 alkyl, C2-4 acyl, etc; R14 = H, (un)substituted C1-4 alkyl, Ph; R4, R5 = H, (un)substituted C1-8 alky, (un)substituted amino, (hetero)cyclyl, etc.; E = CH:CH, C.tplbond.C; J = bond, C1-8 alkylene; R25 = H, (Ph-substituted) C1-4 alkyl, (Ph-substituted) alkoxycarbonyl] or their nontoxic salts are prepared The phenylsulfonamides are useful for treatment of rheumatoid arthritis, bone diseases, arteriosclerosis, tumor, autoimmune diseases, etc., caused by excess secretion or elevated activity of matrix metalloproteinase. Hydrolysis of N-[4-(4-hydroxy-1-butynyl)phenylsulfonyl]-D-tryptophan Me ester with aqueous NaOH gave 29% N-[4-(4-hydroxy-1-butynyl)phenylsulfonyl]-D-tryptophan, which inhibited gelatinase A activity at IC50 of 0.0079 μM.
IT 211383-80-1P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of phenylsulfonamides as matrix metalloproteinase inhibitors for treatment of diseases)

RN 211383-80-1 CAPLUS

CN Pentanediamide, N1-hydroxy-2-[[[4-(4-hydroxy-1-butyn-1-yl)phenyl]sulfonyl]amino]-N5-methyl-N5-(2-phenylethyl)-, (2R)- (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L19 ANSWER 12 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1997:805715 CAPLUS

DOCUMENT NUMBER: 128:61793

ORIGINAL REFERENCE NO.: 128:12110h,12111a

TITLE: Preparation of N-(phenylsulfonyl)amino acid derivatives as matrix metalloproteinase inhibitors

INVENTOR(S): Takahashi, Kanji; Sugiura, Tsuneyuki

PATENT ASSIGNEE(S): Ono Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 194 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

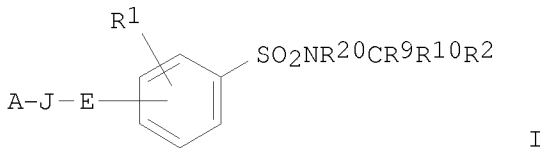
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9745402	A1	19971204	WO 1997-JP1735	19970523 <--
W: AU, CA, CN, HU, KR, MX, NO, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9727920	A	19980105	AU 1997-27920	19970523 <--
JP 10265452	A	19981006	JP 1997-148448	19970523 <--
EP 915086	A1	19990512	EP 1997-922148	19970523 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				

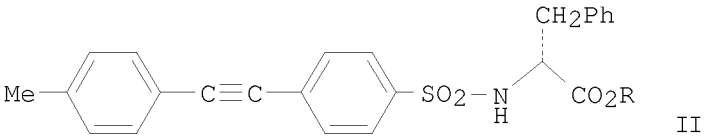
PRIORITY APPLN. INFO.: JP 1996-151864 A 19960524
JP 1997-20879 A 19970121
WO 1997-JP1735 W 19970523

OTHER SOURCE(S): MARPAT 128:61793

GI



I



II

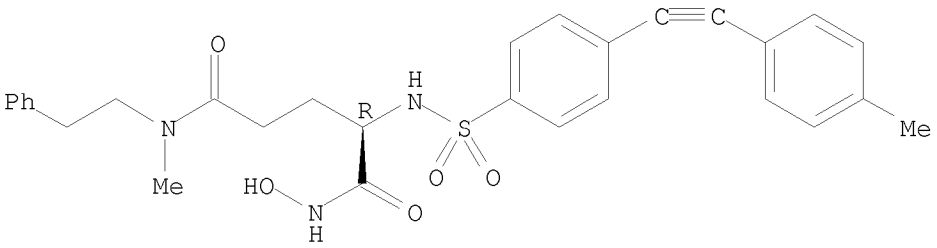
AB Phenylsulfonylamide derivs. represented by general formula (I; R1 = hydrogen or alkyl; R2 = CO2R3 or CONHOR4; wherein R3 = H, C1-8 alkyl, Ph, substituted C1-4 alkyl; R4 = H, C1-8 alkyl, Ph, phenyl-C1-4 alkyl; E = CH:CH, C.tplbond.C; A = hydrogen, alkyl, (un)substituted carbocycle or heterocycle; J = single bond or alkylene; R9, R10 = each hydrogen, (substituted) alkyl, COR11, carbocycle, heterocycle, etc.; R11 = OH, C1-8 alkyl, C1-8 alkoxy, PhO, phenyl-C1-4 alkyl, (un)substituted NH2; R20 = hydrogen, (substituted) C1-4 alkyl, C1-8 alkoxycarbonyl, phenyl-C1-4 alkoxycarbonyl, substituted C1-8 alkyl; or NR20CR9 = 5- to 7-membered heterocyclic ring containing 1 N atom) and salts thereof are prepared Also claimed are processes for producing the same; a matrix metalloproteinase inhibitor containing the same; and medicines containing the same and serving as preventives and/or remedies for rheumatism, osteoarthritis, pathol. bone resorption, osteoporosis, periodontosis, interstitial nephritis, arteriosclerosis, pulmonary emphysema, hepatocirrhosis, corneal injury, diseases due to cancer cell metastasis, infiltration and proliferation, autoimmune diseases (such as Crohn's disease and Sjogren's disease), diseases due to leukocyte emigration or infiltration, and neovascularization. Thus, 4-bromobenzenesulfonyl chloride was added to a solution of tert-Bu D-phenylalaninate in pyridine under ice-cooling and the resulting mixture was stirred at room temperature for 1 h to give tert-Bu N-(4-bromophenylsulfonyl)-D-phenylalaninate. A mixture of the latter compound, 10% Pd-C, Ph3P, CuI, MeCN, and Et3N was refluxed for 3 h to give tert-Bu D-phenylalaninate derivative (II; R = tert-butyl) which was stirred at room temperature for 1 h to give II (R = H). A tablet and an ampule formulation
containing II (R = H) were prepared

IT 200294-53-7P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N-(phenylsulfonyl)amino acid derivs. as matrix metalloproteinase inhibitors for disease treatment)

RN 200294-53-7 CAPLUS

CN Pentanediamide, N1-hydroxy-N5-methyl-2-[[[4-[2-(4-methylphenyl)ethynyl]phenyl]sulfonyl]amino]-N5-(2-phenylethyl)-, (2R)- (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 21 THERE ARE 21 CAPLUS RECORDS THAT CITE THIS RECORD (24 CITINGS)
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 13 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1995:506187 CAPLUS
DOCUMENT NUMBER: 122:242807
ORIGINAL REFERENCE NO.: 122:44327a,44330a
TITLE: Preparation of 3-[bis(carboxymethyl)amino]-N-hydroxypropionamides and salts and their use as sequestering agents
INVENTOR(S): Greindl, Thomas; Kud, Alexander; Schwendemann, Volker; Kneip, Michael; Kappes, Elisabeth; Baur, Richard; Schneider, Juergen; Potthoff-karl, Birgit; Oftring, Alfred
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Ger. Offen., 10 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

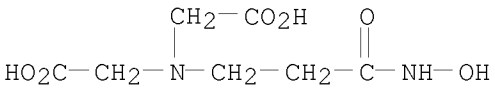
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4313137	A1	19941027	DE 1993-4313137	19930422 <--
WO 9424096	A1	19941027	WO 1994-EP1166	19940415 <--
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 695289	A1	19960207	EP 1994-916159	19940415 <--
EP 695289	B1	19980701		
R: DE, FR, GB, IT, NL				
JP 08508746	T	19960917	JP 1994-522749	19940415 <--
US 5733342	A	19980331	US 1995-532569	19951019 <--
PRIORITY APPLN. INFO.:			DE 1993-4313137 A	19930422
			WO 1994-EP1166 W	19940415

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 122:242807
AB Sequestering agents (XO2CCH2)2NCHR1CHR2CONHOY (R1-2 = H, Me, Et; X, Y = H, alkali metal, ammonium) are prepared for use as detergent builders and bleach stabilizers. Iminodiacetic acid, Me acrylate, H2NOH, and NaOH were used in the preparation of (HO2CCH2)2NCH2CH2CONHOH mono-Na salt which was used (5 parts) with 30 parts zeolite A in a laundry detergent composition which

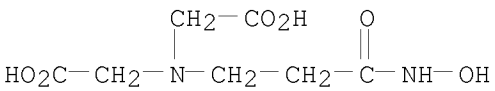
inhibited incrustations in fabrics during repeated laundering.

IT 162459-81-6P 162459-83-8P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(sequestering agents; preparation and use as detergent builders and bleach stabilizers)

RN 162459-81-6 CAPLUS
CN Glycine, N-(carboxymethyl)-N-[3-(hydroxyamino)-3-oxopropyl]-, monosodium salt (9CI) (CA INDEX NAME)



RN 162459-83-8 CAPLUS
CN Glycine, N-(carboxymethyl)-N-[3-(hydroxyamino)-3-oxopropyl]-, disodium salt (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L19 ANSWER 14 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1994:700765 CAPLUS
DOCUMENT NUMBER: 121:300765
ORIGINAL REFERENCE NO.: 121:55057a,55060a
TITLE: Preparation of oxoheterocyclyl-substituted hydroxamic acid derivatives as collagenase inhibitors
INVENTOR(S): Broadhurst, Michael John; Brown, Paul Anthony; Johnson, William Henry; Lawton, Geoffrey
PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.
SOURCE: Eur. Pat. Appl., 27 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 574758	A1	19931222	EP 1993-108628	19930528 <--

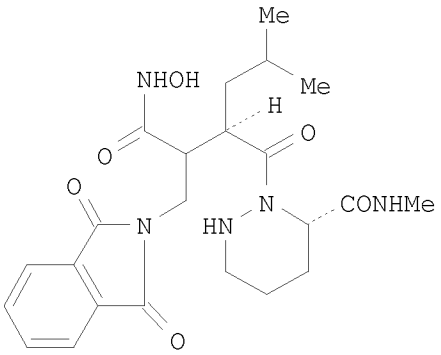
EP 574758	B1	19980909				
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE						
US 5318964	A	19940607	US 1993-66832		19930524	<--
AU 9339816	A	19931216	AU 1993-39816		19930526	<--
AU 659555	B2	19950518				
AT 170840	T	19980915	AT 1993-108628		19930528	<--
ES 2121896	T3	19981216	ES 1993-108628		19930528	<--
ZA 9303957	A	19931213	ZA 1993-3957		19930604	<--
RO 112613	B3	19971128	RO 1993-777		19930604	<--
CZ 283373	B6	19980415	CZ 1993-1081		19930604	<--
IL 105921	A	19980104	IL 1993-105921		19930607	<--
CA 2098168	A1	19931212	CA 1993-2098168		19930610	<--
NO 9302117	A	19931213	NO 1993-2117		19930610	<--
CN 1083062	A	19940302	CN 1993-107239		19930610	<--
CN 1035616	C	19970813				
JP 06065196	A	19940308	JP 1993-165228		19930610	<--
JP 07076210	B	19950816				
FI 109535	B1	20020830	FI 1993-2692		19930611	<--
US 5447929	A	19950905	US 1994-214895		19940317	<--

PRIORITY APPLN. INFO.: GB 1992-12421 A 19920611
GB 1993-5720 A 19930319
US 1993-66832 A3 19930524

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 121:300765

GI



I

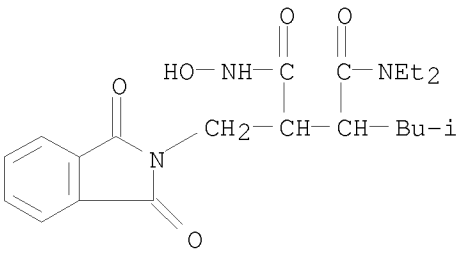
AB R1(CH2)nCH(CONHOH)CH(CONR2R3)CHR4CR5R6CH2R7 (R1 = N-attached oxoheterocyclyl; R2 = alkyl; R3 = alkyl or aryl; NR2R3 = heterocyclyl; R4-R7 = H or Me; n = 1-4) were prepared Thus, (2R)-[(1R,S)-tert-butoxycarbonyl-2-phthalimidoethyl]-4-methylvaleric acid was amidated by 1-benzyloxycarbamoyl-(3S)-hexahydropyridazinecarboxylic acid and the product converted in 3 steps to title compound (R,S)-I which had IC50 of 1.2 nM against collagenase in vitro.

IT 159135-28-1P 159135-30-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as collagenase inhibitor)

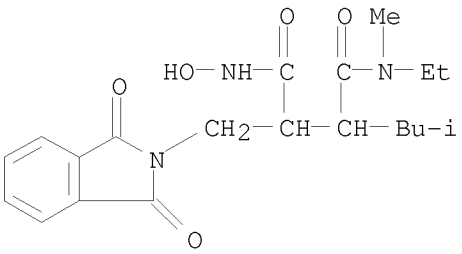
RN 159135-28-1 CAPLUS

CN Hexanamide, 1-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N,N-diethyl-N'-

hydroxy-5-methyl- (CA INDEX NAME)



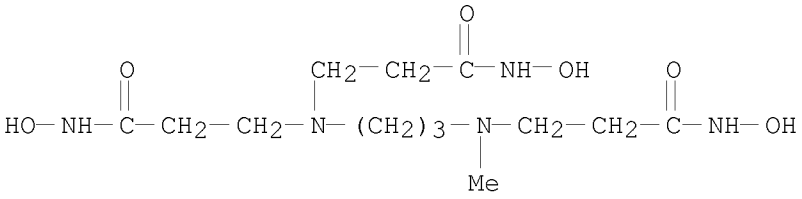
RN 159135-30-5 CAPLUS
CN Hexanamide, 1-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N-ethyl-N'-hydroxy-N,5-dimethyl- (CA INDEX NAME)



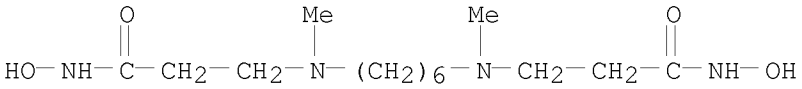
OS.CITING REF COUNT: 30 THERE ARE 30 CAPLUS RECORDS THAT CITE THIS RECORD (38 CITINGS)

L19 ANSWER 15 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1994:578813 CAPLUS
DOCUMENT NUMBER: 121:178813
ORIGINAL REFERENCE NO.: 121:32467a,32470a
TITLE: Convenient method for the preparation of some polyhydroxamic acids: Michael addition of amines to acrylohydroxamic acid derivatives
AUTHOR(S): Koshti, Nirmal M.; Jacobs, Hollie K.; Martin, Patrick A.; Smith, Paul H.; Gopalan, Aravamudan S.
CORPORATE SOURCE: Dep. Chem. and Biochem., New Mexico State Univ., Las Cruces, NM, 88003-8001, USA
SOURCE: Tetrahedron Letters (1994), 35(29), 5157-60
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 121:178813
AB Reagents CH2:CHCONR1OR2 (R1 = H, R2 = PhCH2; R1 = Me, R2 = SiMe2CMe3, SiPh2CMe3) are readily prepared by the reaction of the appropriate hydroxylamine derivs. with acryloyl chloride. The reagents undergo Michael addition with a variety of amines to give the corresponding O-protected hydroxamate derivs. in moderate to good yields. Subsequent removal of the protecting group provides a convenient method for the preparation of a number of mono-, di-, tri- and tetrahydroxamic acids.

IT 157614-62-5P 157614-64-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 157614-62-5 CAPLUS
CN Propanamide, 3,3'-[[3-[[3-(hydroxyamino)-3-oxopropyl]methylamino]propyl]imino]bis[N-hydroxy- (9CI) (CA INDEX NAME)



RN 157614-64-7 CAPLUS
CN Propanamide, 3,3'-[1,6-hexanediylbis(methylimino)]bis[N-hydroxy- (9CI) (CA INDEX NAME)



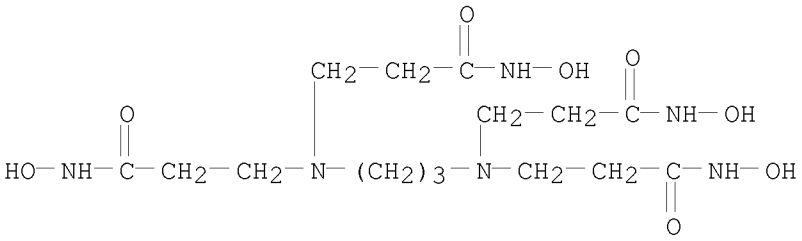
OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

L19 ANSWER 16 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1994:420632 CAPLUS
DOCUMENT NUMBER: 121:20632
ORIGINAL REFERENCE NO.: 121:3711a,3714a
TITLE: Minimization and remediation of DOE nuclear waste problems using high selectivity actinide chelators
AUTHOR(S): Gopalan, A.; Zincircioglu, O.; Smith, P.
CORPORATE SOURCE: Dep. Chem., New Mexico State Univ., Las Cruces, NM, 88003, USA
SOURCE: Radioactive Waste Management and the Nuclear Fuel Cycle (1993), 17(3-4), 161-75
CODEN: RWMCD4; ISSN: 0739-5876
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The goal of this research program is to design, develop, and synthesize organic chelators for selective binding of actinide ions from soils and waste streams. A thorough assessment has been made of available chelators/ligands known or suspected to have high affinities and selectivities for actinides. Based upon the authors' studies in addition to the well studied catecholates, multidentate oxoligands such as hydroxamate, iminodiacetate, and hydroxypyridinones show promise for binding relatively hard actinide ions present in acidic, aqueous process solns. Some specific model chelating structures for plutonium ion binding have been identified for synthesis and study of their binding abilities. In these mols., the ligand groups are preorganized around a template/spacer group, to coordinate the target metal ion specifically.

Chelators that have been synthesized contain either a flexible acyclic structural backbone or a rigid benzene spacer to which the ligands are appended. Also, methods for the preparation of some model hexadentate and octadentate hydroxamate chelators and a novel chelator containing three iminodiacetic acid ligands are described. Results of some preliminary binding studies on the synthesized chelators are discussed. Desferrioxamine-B, a known hydroxamic acid siderophore, has been used a model to develop procedures for evaluating the binding abilities of synthetic chelators.

IT 155819-25-3
RL: PROC (Process)
(chelating agent, for actinide removal from contaminated soils and radioactive wastewaters)

RN 155819-25-3 CAPLUS
CN Propanamide, 3,3',3'',3'''-(1,3-propanedinitrilo)tetrakis[N-hydroxy-, tetrapotassium salt (9CI) (CA INDEX NAME)



●4 K

OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

L19 ANSWER 17 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1994:307465 CAPLUS
DOCUMENT NUMBER: 120:307465
ORIGINAL REFERENCE NO.: 120:53941a,53944a
TITLE: Hydroxamic acid-based bifunctional chelating compounds
INVENTOR(S): Safavy, Ahmad; Buchsbaum, Donald J.; Khazaeli, M. B.
PATENT ASSIGNEE(S): UAB Research Foundation, USA
SOURCE: PCT Int. Appl., 49 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9405627	A1	19940317	WO 1993-US8401	19930907 <--

W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, VN

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

US 5756825	A	19980526	US 1993-48869		19930416 <--
AU 9348501	A	19940329	AU 1993-48501		19930907 <--
PRIORITY APPLN. INFO.:			US 1992-941986	A	19920908
			US 1993-48869	A	19930416
			WO 1993-US8401	W	19930907

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

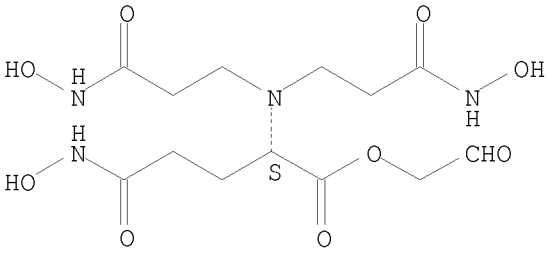
AB The present disclosure details the preparation of hydroxamic acid-based bifunctional chelators and their use in conjugating metal ions to proteins and nucleic acids for tumor or tissue imaging or therapy purposes. Some preferred aspects of the disclosure involve the preparation of trisuccin, particularly useful for binding radionuclides such as 99Tc, 186Re, and 67Cu. Thus, trisuccin-monoclonal antibody CC49 conjugate was prepared using dicyclohexylcarbodiimide and labeled with 99mTc. The radiolabeled conjugate was administered to human colon cancer cell line-bearing mice and the tumor localization and tissue biodistribution of the antibodies were determined

IT 155109-50-5
RL: BIOL (Biological study)
(as bifunctional chelator for conjugation of metal ions to proteins)

RN 155109-50-5 CAPLUS

CN L-Glutamine, N2,N2-bis[3-(hydroxyamino)-3-oxopropyl]-N-hydroxy-, 2-oxoethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 18 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1994:211240 CAPLUS

DOCUMENT NUMBER: 120:211240

ORIGINAL REFERENCE NO.: 120:37301a,37304a

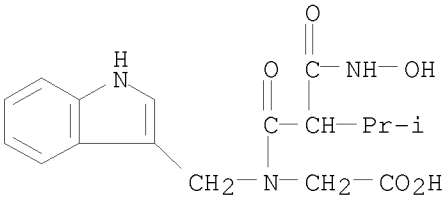
TITLE: Design and synthesis of new peptidase inhibitors based on an endogenous ACE inhibitor Val-Trp

AUTHOR(S): Ueki, Masaaki; Katoh, Tsuyoshi; Shimizu, Tatsuto; Komiya, Satoko; Tobe, Masanori; Mizuno, Mamoru; Yuasa, Ritsuko; Watanabe, Ayako; Hazato, Tadahiko

CORPORATE SOURCE: Dep. Appl. Chem., Sci. Univ. Tokyo, Tokyo, 162, Japan

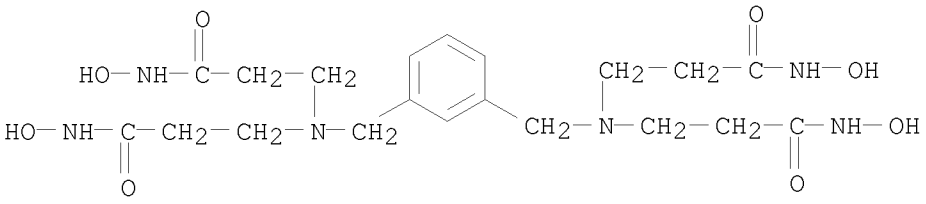
SOURCE: Pept. Chem. 1992, Proc. Jpn. Symp., 2nd (1993***) , Meeting Date 1992, 538-40. Editor(s): Yanaihara, Noboru. ESCOM: Leiden, Neth.

CODEN: 59NTAC
DOCUMENT TYPE: Conference
LANGUAGE: English
AB Using the naturally occurring angiotensin-converting enzyme (ACE) inhibitor, Val-Trp, as a lead compd., and adding a hydroxamate group which is a key Zn-interacting structure in kelatorphin, an inhibitor of enkephalin-degrading enzymes, a synthetic ACE and enkephalinase A and B inhibitor, SUT-9014, was designed, prepd., and tested. Using SUT-9014 [N-(RS)-[2-(hydroxyaminocarbonyl)-3-methyl-1-oxobutyl]-L-tryptophan] as a 2nd lead compd., 12 analogs were synthesized and structure-activity relations were studied. The results indicated that the amino H atom of tryptophan is necessary for enzyme recognition by the H-bond and that the structure of the P2' site appeared to be more important in ACE.
IT ***153980-96-2, SUT 9132
RL: BIOL (Biological study)
(angiotensin-converting enzyme and enkephalinases A and B inhibition by, structure in relation to)
RN 153980-96-2 CAPLUS
CN Glycine, N-[2-[(hydroxyamino)carbonyl]-3-methyl-1-oxobutyl]-N-(1H-indol-3-ylmethyl)- (CA INDEX NAME)



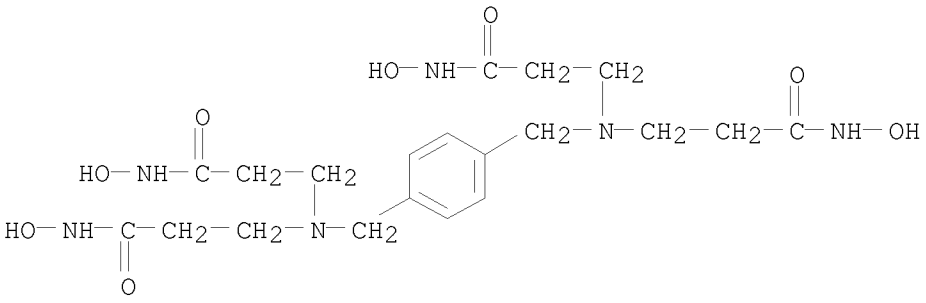
L19 ANSWER 19 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1993:21976 CAPLUS
DOCUMENT NUMBER: 118:21976
ORIGINAL REFERENCE NO.: 118:4129a,4132a
TITLE: Novel tetrahydroxamate chelators for actinide complexation: synthesis and binding studies
AUTHOR(S): Gopalan, Aravamudan S.; Huber, Vincent J.; Zincircioglu, Orhan; Smith, Paul H.
CORPORATE SOURCE: Dep. Chem., New Mexico State Univ., Las Cruces, NM, 88003-0001, USA
SOURCE: Journal of the Chemical Society, Chemical Communications (1992), (17), 1266-8
CODEN: JCCCAT; ISSN: 0022-4936
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The chelators, e.g., 1,3-C6H4[CH2N(CH2CH2CONHOH)2]2, members of a new class of tetrahydroxamate chelators, are readily synthesized and are shown by potentiometric studies to have high affinities for thorium(IV), iron(III) and neodymium(III).
IT 145060-17-9P 145060-18-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, protonation consts. and formation consts. of, for metal chelation)
RN 145060-17-9 CAPLUS

CN Propanamide, 3,3',3'',3'''-[1,3-phenylenebis(methylenenitrilo)]tetrakis[N-hydroxy-, tripotassium salt (9CI) (CA INDEX NAME)



●3 K

RN 145060-18-0 CAPLUS
CN Propanamide, 3,3',3'',3'''-[1,4-phenylenebis(methylenenitrilo)]tetrakis[N-hydroxy-, tripotassium salt (9CI) (CA INDEX NAME)



●3 K

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

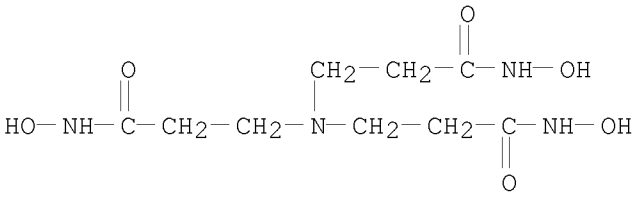
L19 ANSWER 20 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1992:407618 CAPLUS
DOCUMENT NUMBER: 117:7618
ORIGINAL REFERENCE NO.: 117:1539a,1542a
TITLE: General method for the synthesis of trishydroxamic acids
AUTHOR(S): Karunaratne, V.; Hoveyda, H. R.; Orvig, C.
CORPORATE SOURCE: Dep. Chem., Univ. British Columbia, Vancouver, BC, V6T 1Z1, Can.
SOURCE: Tetrahedron Letters (1992), 33(14), 1827-30
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 117:7618

AB Triscarboxylic acids, when treated with hydroxylamines in the presence of water-soluble carbodiimide in THF-H2O, at pH .apprx. 4.8, yield the corresponding trishydroxamic acids in good yields.

IT 69778-14-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 69778-14-9 CAPLUS

CN Propanamide, 3,3',3''-nitrilotris[N-hydroxy- (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L19 ANSWER 21 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1984:531205 CAPLUS

DOCUMENT NUMBER: 101:131205

ORIGINAL REFERENCE NO.: 101:19977a,19980a

TITLE: Role of complex formation during polycondensation of activated N-hydroxysuccinimide esters with diamines

AUTHOR(S): Katsarava, R. D.; Kharadze, D. P.; Avalishvili, L. M.; Zaalishvili, M. M.

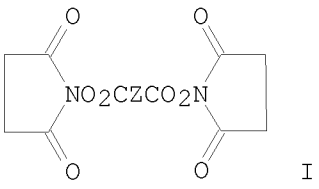
CORPORATE SOURCE: Inst. Fiziol., Tbilisi, USSR

SOURCE: Vysokomolekulyarnye Soedineniya, Seriya A (1984), 26(7), 1537-43
CODEN: VYSAAF; ISSN: 0507-5475

DOCUMENT TYPE: Journal

LANGUAGE: Russian

GI



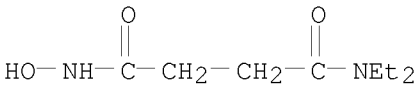
I

AB During polycondensation of diamines with the title esters (I, Z = alkylene, arylene), the N-hydroxysuccinimide (II) [6066-82-6] byproduct formed complexes with the diamines. During polycondensation of weakly reactive I (Z = arylene) with aliphatic diamines at moderate temps., the complexation retarded polycondensation and prevented formation of high-mol.-weight polyamides. The polymerization rate increased sharply at higher temperature; however, side reactions also intensified. During reaction of

highly reactive I (Z = alkylene), complexation had little influence on the polymerization

IT 91990-28-2P
RL: PREP (Preparation)
(formation and properties of, polycondensation of diamines with hydroxysuccinimide diesters in relation to)

RN 91990-28-2 CAPLUS
CN Butanediamide, N1,N1-diethyl-N4-hydroxy- (CA INDEX NAME)



L19 ANSWER 22 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1983:18481 CAPLUS
DOCUMENT NUMBER: 98:18481
ORIGINAL REFERENCE NO.: 98:2973a,2976a
TITLE: Hydroxamic acid amphoteric surfactants
PATENT ASSIGNEE(S): Lion Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

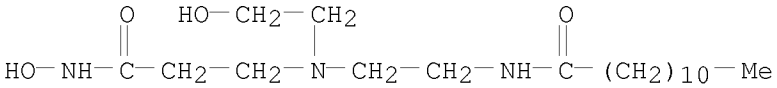
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57119997	A	19820726	JP 1981-6137	19810119 <--
JP 62053510	B	19871110		

PRIORITY APPLN. INFO.: JP 1981-6137 19810119

AB Et 3-[N-(2-hydroxyethyl)-N-(lauroylaminoethyl)amino]propionate [83952-04-9] (47.9 G) was dissolved in 200 g EtOH, mixed with 10 g NH2OH·HCl [5470-11-1] and 12 g NaOH, and stirred for 1-5 h to prepare 45 g 3-[N-(2-hydroxyethyl)-N-(lauroylaminoethyl)amino]propiohydroxamic acid (I) [83952-05-0] which was an inhibitor for urease [9002-13-5]. A solution containing 0.75% I inhibited >60% of the formation of NH3.

IT 83952-05-0P
RL: TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(surfactants, amphoteric, manufacture of, as inhibitors for urease)

RN 83952-05-0 CAPLUS
CN Dodecanamide, N-[2-[[3-(hydroxyamino)-3-oxopropyl](2-hydroxyethyl)amino]ethyl]- (CA INDEX NAME)

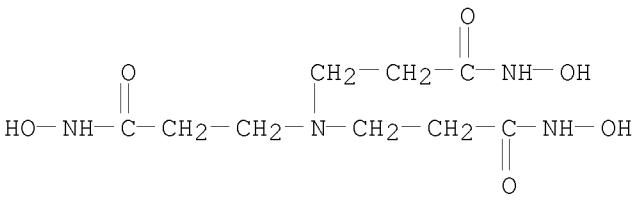


L19 ANSWER 23 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1979:145712 CAPLUS
DOCUMENT NUMBER: 90:145712
ORIGINAL REFERENCE NO.: 90:23037a,23040a
TITLE: The selection and evaluation of new chelating agents for the treatment of iron overload
AUTHOR(S): Pitt, C. G.; Gupta, G.; Estes, W. E.; Rosenkrantz, H.; Metterville, J. J.; Crumbliss, A. L.; Palmer, R. A.; Nordquest, K. W.; Sprinkle Hardy, K. A.; et al.
CORPORATE SOURCE: Res. Triangle Inst., Research Triangle Park, NC, USA
SOURCE: Journal of Pharmacology and Experimental Therapeutics (1979), 208(1), 12-18
CODEN: JPETAB; ISSN: 0022-3565
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A large-scale systematic evaluation of potential iron chelators for the treatment of hemosiderosis was conducted. The compds. were identified and evaluated using a hypertransfused mouse screen in which deferrioxamine B [70-51-9] was a standard This screen was designed to measure Fe depletion in the tissues as well as Fe excretion. Groups of 10 previously hypertransfused BDF1 male mice received a single daily i.p. injection of either vehicle, standard, or test compound for 7 days. Fe in daily urine pools and individual spleen and liver homogenates was determined by atomic absorption.

More than 70 chelators were evaluated, including natural and synthetic hydroxamic acids, phenols, catechols and tropolones known to have a high affinity for Fe (III) in vitro. Ethylenediamine-N,N'-bis(2-hydroxyphenylacetic acid) [1170-02-1] was considerable more effective than deferrioxamine B (i.p.) and, in addition, was orally active. Factors determining the efficacy of this and other chelating agents are discussed.

IT 69778-14-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(iron chelation by, in hemosiderosis)
RN 69778-14-9 CAPLUS
CN Propanamide, 3,3',3''-nitrilotris[N-hydroxy- (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

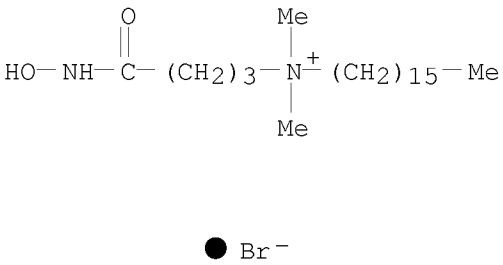
L19 ANSWER 24 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1979:102966 CAPLUS
DOCUMENT NUMBER: 90:102966
ORIGINAL REFERENCE NO.: 90:16255a,16258a
TITLE: Dipolar micelles. 8. Hydrolysis of substituted phenyl esters in a hydroxamic acid surfactant
AUTHOR(S): Pillersdorf, A.; Katzhendler, J.

CORPORATE SOURCE: Sch. Pharm., Hebrew Univ., Jerusalem, Israel
SOURCE: Journal of Organic Chemistry (1979), 44(4), 549-54
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The reactions of hydroxamic acid catalysts of the structure Me(CH2)nN+Me2(CH2)3CONHOH Br- [n = 15 (I), 0] with substituted Ph esters were studied. The kinetics in I followed the expression: kobsd = ko + kcka/(ka + H+) + kOH[OH-]. The water-catalysis rates ko for all the esters studied were significantly greater than the spontaneous rate consts. reported in the literature for esters with identical leaving groups. The magnitude of the water rate consts., and their dependence on microenvironmental factors as displayed by mixed micellar systems, indicated that the reaction proceeds via electrophilic assistance by the onium head groups. Nucleophilic attack by the hydroxamate anion (kc) in I on the esters corresponds to a β Broensted value of -1.1. Although I was expected to be an α-effector catalyst, the relative enhancement of the rate consts. was very small. This was explained in terms of proximity and electrostatic effects in the transition state. The basic-hydrolysis rates kOH and the titrimetric behavior of I were also discussed.

IT 68367-35-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and catalysis by, of hydrolysis of substituted Ph esters, kinetics with)

RN 68367-35-1 CAPLUS
CN 1-Hexadecanaminium, N-[4-(hydroxyamino)-4-oxobutyl]-N,N-dimethyl-, bromide (1:1) (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L19 ANSWER 25 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1973:38037 CAPLUS
DOCUMENT NUMBER: 78:38037
ORIGINAL REFERENCE NO.: 78:5949a,5952a
TITLE: Potential hypotensive compounds. Substituted 3-aminopropionates and 3-aminopropionohydroxamic acids
AUTHOR(S): Biggs, D. F.; Coutts, R. T.; Selley, M. L.; Towill, G. A.
CORPORATE SOURCE: Fac. Pharm. Pharm. Sci., Univ. Alberta, Edmonton, AB, Can.
SOURCE: Journal of Pharmaceutical Sciences (1972),

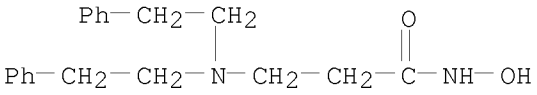
61(11), 1739-45
CODEN: JPMSAE; ISSN: 0022-3549
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Most of the 48 3-aminoproprionate esters studied were synthesized by addition of an amine across the α,β-double bond of Me acrylate [96-33-3], Me methacrylate [80-62-6], or Me crotonate [18707-60-3], while the remainder were obtained by interaction of 1 mole of a 3-bromopropionic ester with 2 moles of the corresponding amine. Twenty-six 3-aminopropionohydroxamic acid hydrochlorides were prepared by treatment of the appropriate amino ester with hydroxylamine-HCl [5470-11-1] in MeOH. Many of the compds. such as 2-methyl-3-[(2-phenylethyl)amino]propanoic acid Me ester [6297-67-2], 3,3'-[(2-phenylethyl)imino]bispropanoic acid dimethyl ester [38129-46-3], N-[3-(hydroxyamino)-2-methyl-3-oxopropyl]heptanaminium chloride [38129-47-4], and N-[3-(hydroxyamino)-3-oxopropyl]-2-(2-phenylethyl)benzeneethanaminium chloride [38202-84-5] possessed hypotensive properties but of very short duration. 2-Methyl-3-(octylamino)propanoic acid Me ester [29228-46-4] was the most active, and at 4 mg/kg i.v. decreased the blood pressure of rats by an average of 52% for 12 min. Some of the compds. were screened for their ability to protect mice against a lethal dose of diisopropylfluorophosphate [55-91-4], but none was active.

IT 38202-84-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and hypotensive effect of)

RN 38202-84-5 CAPLUS

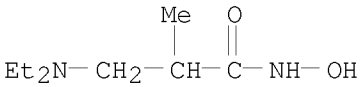
CN Propanamide, 3-[bis(2-phenylethyl)amino]-N-hydroxy-, hydrochloride (1:1) (CA INDEX NAME)



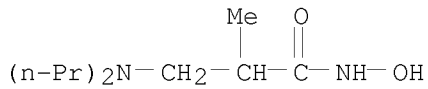
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L19 ANSWER 26 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1971:75986 CAPLUS
DOCUMENT NUMBER: 74:75986
ORIGINAL REFERENCE NO.: 74:12327a,12330a
TITLE: Synthesis and properties of some hypotensive N-alkylaminopropionic esters and N,N-dialkylaminopropionic esters and their hydroxamic acids
AUTHOR(S): Coutts, Ronald T.; Hubbard, J. W.; Midha, Kamal K.; Prasad, Kailash
CORPORATE SOURCE: Fac. Pharm. Pharm. Sci., Univ. Alberta, Edmonton, AB, Can.
SOURCE: Journal of Pharmaceutical Sciences (1971), 60(1), 28-33

CODEN: JPMSAE; ISSN: 0022-3549
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Thirty-eight 3-(N-alkylamino)- and 3-(N,N-dialkylamino)propionic esters (I), hydroxamic acids (II), carboxylic acids, and related compds. were synthesized and the majority of the esters and hydroxamic acids decreased the blood pressure of anesthetized cats, while the carboxylic acids were inactive. The esters were prepared by the interaction of methyl acrylate or methyl methacrylate and an appropriate amine. Some hindered amines did not react with the acrylate, and some esters hydrolyzed to the corresponding carboxylic acids when stored even for a short time. The hydroxamic acids were prepared from the amino esters treated with hydroxylamine.
IT 31035-63-9P 31035-64-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 31035-63-9 CAPLUS
CN Propanamide, 3-(diethylamino)-N-hydroxy-2-methyl-, hydrochloride (1:1) (CA INDEX NAME)



RN 31035-64-0 CAPLUS
CN Propanamide, 3-(dipropylamino)-N-hydroxy-2-methyl-, hydrochloride (1:1) (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L19 ANSWER 27 OF 27 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1964:483943 CAPLUS
DOCUMENT NUMBER: 61:83943
ORIGINAL REFERENCE NO.: 61:14578h,14579a-c
TITLE: Synthesis and polarographic reduction of aliphatic amino hydroxamic acids
AUTHOR(S): Matveev, B. V.; Tsybaeva, G. G.
CORPORATE SOURCE: S. M. Kirov Milit. Med. Acad., Leningrad

SOURCE: Zhurnal Obshchei Khimii (1964), 34(8), 2491-5
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB The hydroxamic acids listed below were prepared from esters of appropriate amino acids and HONH2.HCl in H2O or aqueous EtOH at 0-10°; they were isolated as HCl salts after evaporation and extraction with hot EtOH; the HCl salts were converted to the free acids with EtONa solution, and further treatment with MeI gave the corresponding methiodides. For these acids, the % yields, m.p., pKa and polarographic half-wave potentials (volts) were as follows: AcNHOH, 45, 85°, 8.70, -2.18; H2NCH2CONHOH.HCl, 60, 108-9°, 7.35, -2.33; Me2NCH2CONHOH.HCl, 50, 145°, 7.10, -2.10; Me3NCH2CONHOH.Br, 52, 156°, 6.70, -2.38; Et2NCH2CONHOH.HCl, 44, 11819°, 7.20, -2.10; Et3NCH2CONHOH.Br, 31, 141-3°, 6.60, -2.12; H2NCHMeCONHOH.HCl, 52, 165°, 7.25, -2.35; Me2NCHMeCONOH.HCl, 51, 170-1°, 6.80, -2.28; Me3NCHMeCONHOH.I, 72, 80-1°, 6.65, -2.45; H2NCH2CH2CONHOH.HCl, 20, 144°, 7.90, -2.30; Me2NCH2CH2CONHOH.HCl, 82, 90-1°, 7.85, -2.25; Me3NCH2CH2CONHOH.I, 73, 133-4°, 8.0, -2.22; Et2NCH2CH2CONHOH.HCl, 77, 91-2°, 8.15, -2.20; 2NCH2CH2CH2CONHOH.HCl, 50, 80-1°, 8.40, -2.22; Me3NCH2CH2CH2CONHOH.Br, 33, 163-5°, 8.60, -2.22;PhCH2NMe2CH2CONHOH.Br, 43, -, 6.70, -2.15; PhCH2NMe2CH2CH2CONHOH.Br, 41, -, 8.40, -2.19; HO2CCH(NH2)CH2CH2CONHOH.HCl, 43, 114 , -, -2.18; MeSCH2CH2CH(NH2)CONHOH.HCl, 61, 130-2°, 6.60, -2.17; CH2[CH2NMe2CH2CONHOH]2.2Br, 47, -, 6.20, -2.36. The correlation of the half-wave potentials with dissociation consts. is discussed.

IT 91773-87-4P, Propionohydroxamic acid, 3-(diethylamino)-, hydrochloride
RL: PREP (Preparation)
(preparation of)

RN 91773-87-4 CAPLUS

CN Propanamide, 3-(diethylamino)-N-hydroxy-, hydrochloride (1:1) (CA INDEX NAME)